

WHAT IS CLAIMED IS:

1. A polysulfone composition comprising:

a polysulfone;

an organic phosphorous-containing melt stabilizer; and

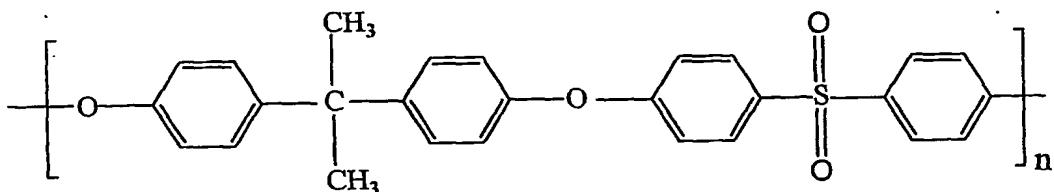
at least one of the following additives:

a blue to violet dye; and an

organic optical brightener.

2. The polysulfone composition according to **claim 1**, wherein the composition comprises a composition containing from about 30 ppm to about 3000 ppm by weight of an organic phosphorous-containing melt stabilizer selected from the group consisting of phosphites, phosphonites, and mixtures thereof.

3. The polysulfone composition according to **claim 1 or 2**, wherein the composition is bisphenol A polysulfone with the following structure:



4. The polysulfone composition according to **any of claims 1 to 3**, wherein the polysulfone is a copolymer comprising at least 75 mole % bisphenol A and up to 25 mole % of another bisphenol selected from the group consisting of bisphenol S, bisphenol O, biphenol, and hydroquinone.

5. A polysulfone composition having a total luminous light transmittance of 84 % or greater when measured on 0.1 inch thick specimens using ASTM D-1003 and also meeting at least one of the following two conditions: 1) a yellowness index (YI) of less than about 5.0 as measured according to ASTM D-1925 on 0.1 inch thick specimens, or 2) a color

factor (CF) of less than about 25, wherein CF is defined by the following equation:

$$CF = 270[(x+y)_{\text{sample}} - (x+y)_{\text{air}}]/t$$

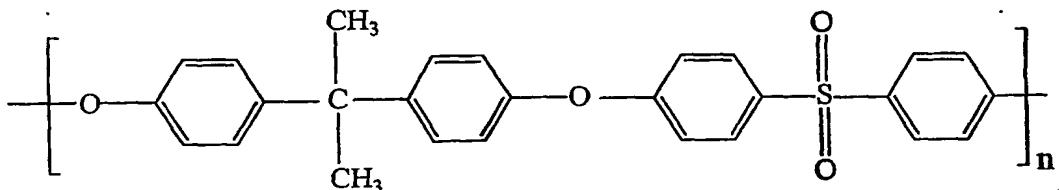
wherein x and y are chromaticity coordinates measured in transmittance mode and t is sample thickness in inches.

6. The polysulfone composition according to claim 5, wherein the composition further comprises an organic optical brightener.

7. The polysulfone composition according to claims 5 or 6, wherein the composition further comprises a violet to blue dye.

8. The polysulfone composition according to any of claims 5 to 7, wherein the composition comprises a composition containing from about 30 ppm to about 3000 ppm by weight of an organic phosphorous-containing melt stabilizer selected from the group consisting of phosphites, phosphonites, and mixtures thereof.

9. The polysulfone composition according to any of claims 5 to 8, wherein the composition is bisphenol A polysulfone with the following structure:



10. The polysulfone composition according to any of claims 5 to 8, wherein the polysulfone is a copolymer comprising at least 75 mole % bisphenol A and up to 25 mole % of another bisphenol selected from the group consisting of bisphenol S, bisphenol O, biphenol, and hydroquinone.

11. A melt fabricated article made from the polysulfone composition according to any of claims 1-10.

12. An injection molded or compression molded article made from the polysulfone composition according to any of claims 1-10.
13. A hybrid injection-compression molded article made from the polysulfone composition according to any of claims 1-10.
14. An extruded article made from the polysulfone composition according to any of claims 1-10.
15. A blow-molded article made from the polysulfone composition according to any of claims 1-10.
16. A thermoformed article made from the polysulfone composition according to any of claims 1-10.
17. A transparent, molded polysulfone article having a yellowness index less than 1.00.
18. The transparent, molded polysulfone article according to claim 17, wherein the yellowness index is less than 0.75.
19. The transparent, molded polysulfone article according to claim 18, wherein the yellowness index is less than 0.50.
20. A transparent, molded polysulfone article having a color factor less than about 5.
21. The transparent, molded polysulfone article according to claim 20, wherein the color factor is less than 4.
22. The transparent, molded polysulfone article according to claim 21, wherein the color factor is less than 3.
23. The transparent, molded article according to any of claims 17 to 22, wherein the molded article is an optical component.

24. The transparent, molded article according to claim 23, wherein the molded article is a lens.

25. The transparent, molded lens according to claim 24, wherein the lens is an ophthalmic lens.

26. A transparent layer of polysulfone having a yellowness index of less than 1.00.

27. A transparent layer of polysulfone having a color factor of less than 5.